



PPTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
VANM256.001AUSAPPLICATION NO.
10/615,490INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Cerf et al.FILING DATE
July 7, 2003GROUP
2131

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

EXAMINER
INITIAL

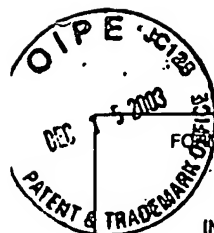
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

22	1.	Gisin, N., Ribordy, G., Tittel, W. & Zbinden H., <i>Rev. Mod. Phys.</i> 74 , 145 (2002)
22	2.	Hillery, M., Quantum cryptography with squeezed states, <i>Phys. Rev. A</i> 61 , 022309-1—022309-8 (2000)
22	3.	Ralph, T. C., Continuous variable quantum cryptography, <i>Phys. Rev. A</i> 61 , 010303(R)-1—010303-4 (1999)
22	4.	Ralph, T. C., Security of continuous-variable quantum cryptography., <i>Phys. Rev. A</i> 62 , 062306-1—062306-7 (2000)
22	5.	Reid, M. D., Quantum cryptography with a predetermined key, using continuous-variable Einstein-Podolsky-Rosen correlations, <i>Phys. Rev. A</i> 62 , 062308-1—062308-6 (2000)
22	6.	Gottesman, D. & Preskill, J., Secure quantum key distribution using squeezed states, <i>Phys. Rev. A</i> 63 , 022309-1—022309-18 (2001)
22	7.	Cerf, N. J., Lévy, M. & Van Assche, G. Quantum distribution of gaussian keys using squeezed states, <i>Phys. Rev. A</i> 63 , 052311-1—052311-5 (2001)
22	8.	Bencheikh, K., Symul, Th., Jankovic, A. & Levenson, J.A., Quantum key distribution with continuous variables, <i>J. Mod. Optics</i> 48 , 1903-1920 (2001)
22	9.	Cerf, N.J., Iblisdir, S. & Van Assche, G., Cloning and cryptography with quantum continuous variables, <i>Eur. Phys. J. D</i> 18 , 211-218 (2002)
22	10.	Silberhorn, Ch., Korolkova, N. & Leuchs, G., Quantum key distribution with bright entangled beams, <i>Phys. Rev. Lett.</i> 88 , 167902-1—167902-4 (2002)
22	11.	Grosshans, F. & Grangier, Ph., Continuous variable quantum cryptography using coherent states, <i>Phys. Rev. Lett.</i> 88 , 057902-1—057902-4 (2002)

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. VANM258.001AUS	APPLICATION NO. 10/615,490
	APPLICANT Cerf et al.	
	FILING DATE July 7, 2003	GROUP 2131

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
<i>JS</i>	12. Cerf, N.J., Ipe, A. & Rottenberg, X., Cloning of continuous variables, <i>Phys. Rev. Lett.</i> 85 , 1754-1757 (2000)
<i>JS</i>	13. Cerf, N.J. & Iblisdir, S., Optimal N-to-M cloning of conjugate quantum variables, <i>Phys. Rev. A</i> 62 , 040301(R)-1—040301-3 (2000)
<i>JS</i>	14. Grosshans, F. & Grangier, Ph., Quantum cloning and teleportation criteria for continuous quantum variables, <i>Phys. Rev. A</i> 64 , 010301(R)-1—010301-4 (2001)
<i>JS</i>	15. Duan, L.-M., Giedke, G., Cirac, J. I. & Zoller, P., Entanglement purification of gaussian continuous variable quantum states, <i>Phys. Rev. Lett.</i> 84 , 4002-4005 (2000)
<i>JS</i>	16. Poizat, J.Ph., Roch, J.-F. & Grangier, P., Characterization on quantum non-demolition measurements in optics, <i>Ann. Phys. (Paris)</i> 19 , 265-297 (1994)
<i>JS</i>	17. Grangier, Ph., Levenson, J. A. & Poizat, J.-Ph., Quantum non-demolition measurements in optics, <i>Nature</i> 396 , 537-542 (1998)
<i>JS</i>	18. Grosshans, F. & Grangier, Ph., Reverse reconciliation protocols for quantum cryptography with continuous variables, <i>E-print arXiv:quant-ph/0204127-1—0204127-5</i> (April 2002)
	19. Nguyen, K., <i>Extension des Protocoles de Réconciliation en Cryptographie Quantique</i> , Master Thesis, table of contents, (Université Libre de Bruxelles, Bruxelles, 2002)
<i>JS</i>	20. Bennett, C.H. & Brassard, G., Quantum cryptography: Public key distribution and coin tossing, <i>Proceedings of the IEEE International Conference on Computers, Systems, and Signal Processing, Bangalore, India</i> , 175-179 (IEEE, New York, 1984)
<i>JS</i>	21. Brassard, G. & Salvail, L., Secret-key reconciliation by public discussion, <i>Advances in Cryptology - Eurocrypt'93, Lecture Notes in Computer Science</i> , 410-423 (Springer-Verlag, New York, 1993)
<i>JS</i>	22. Van Assche, G., Cardinal, J. & Cerf, N.J., Reconciliation of a quantum-distributed Gaussian key, <i>E-print arXiv:cs.CR/0107030</i> (2002)
<i>JS</i>	23. Maurer, U. M. & Wolf, S., Information theoretic key agreement : from weak to strong secrecy for free, <i>Advances in Cryptology - Eurocrypt 2000, Lecture Notes in Computer Science</i> , 351-368 (Springer-Verlag, New York, 2000)
<i>JS</i>	24. Maurer, U.M., Secret key agreement by public discussion from common information, <i>IEEE Trans. Inform. Theory</i> 39 , 733-742 (1993)
<i>JS</i>	25. Bennett, C. H., Brassard, G., Crépeau, C. & Maurer, U.M., Generalized privacy amplification, <i>IEEE Trans. on Inform. Theory</i> 41 , 1915-1935 (1995)
<i>JS</i>	26. Carter, J.L. & Wegman, M.N., Universal Classes of Hash Functions, <i>J. of Comp. and Syst. Sci.</i> 18 , 143-154 (1979)
<i>JS</i>	27. Schönhage, A., Schnelle Multiplikation von Polynomen über Körpern der Charakteristik 2, <i>Acta Informatica</i> 7 , 395-398 (summary in English) (1977)
<i>JS</i>	28. Brent, R.P., Larvala, S. & Zimmermann, P., A fast algorithm for testing irreducibility of trinomials mod 2, <i>Tech. Rep., Oxford University Computing Laboratory</i> , 1-16 (2000)
<i>JS</i>	29. Braunstein, S.L. & Pati, A.K., Quantum information with continuous variables, table of contents, Kluwer Academic, Dordrecht, 2003
<i>JS</i>	30. Stucki, D., Gisin, N., Guinnard, O., Ribordy, G. & Zbinden H., Quantum Key Distribution over 67 km with a plug&play system, <i>E-print arXiv:quant-ph/0203118</i> (2002).

EXAMINER <i>JS</i>	DATE CONSIDERED <i>1/11/06</i>
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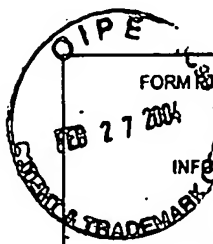
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22	31.	Buttler, W.T., Lamoreaux, S.K., Torgerson, J.R., Nickel, G.H., Donahue, C.H., & Peterson, C.G., Fast, efficient error reconciliation for quantum cryptography. <i>E-print arXiv:quant-ph/0203096</i> (2003)
22	32.	Grosshans F., Van Assche G., Wenger J., Brouri R., Cerf N. J. & Grangier Ph., Quantum key distribution using gaussian-modulated coherent states, <i>Nature</i> 421, 238-241 (2003)

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EXAMINER	<i>Jan Ky</i>	DATE CONSIDERED	11/16/06
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1.	Title et al., "Quantum Cryptography," <i>Physics World</i> , 41-45 (March 1998)

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